# Safety Data Sheet
# ZincMax +

Classified as: Hazardous according to the Hazardous Substances (Hazard Classifications) Notice 2020.

## Section 1: SUBSTANCE AND SUPPLIER DETAILS

**Product Name:** ZincMax +

**Supplier:** Image Holdings Ltd.
50 Central Park Drive
Henderson
Auckland, 0610
New Zealand

**Phone:** +64 9 834 3783 (Customer Service)

**Email:** info@imageholdings.co.nz

**Website:** www.imageholdings.co.nz

**Recommended Use:** Animal Feed Premix

**In Case of Emergency Contact:**

CHEMCALL: 0800 CHEMCALL (0800 243 622)

Traffic Emergency: 111 (Fire, Police, Ambulance)

Other Emergency Number: +64 21 934 058

## Section 2: HAZARDS IDENTIFICATION

This product is classified as a Dangerous Good for Transport.

This product is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classifications) Notice 2020.

Classified under the group standard "Animal Nutritional and Animal Care Products Group Standard 2020"

HSNO APPROVAL NUMBER: **HSR002521**

HSNO CLASSIFICATIONS: 6.1D - Acutely toxic, oral
6.9B - Harmful to human target organs or systems, repeated exposure
8.3A - Eye corrosive
9.1A - Very ecotoxic in the aquatic environment, acute
9.1A – Very ecotoxic in the aquatic environment, chronic
Hazardous to terrestrial vertebrates

GHS Classification: Acute toxicity, oral - Category 4
Specific target organ toxicity, repeated exposure - Category 2
Serious eye damage - Category 1
Hazardous to the aquatic environment, acute - Category 1
Hazardous to the aquatic environment, chronic – Category 1

Hazardous to terrestrial vertebrates

Hazard Statements:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H373 May cause damage to organs (blood, liver, kidneys) through prolonged or repeated exposure via ingestion.
H400 + H410 Very toxic to aquatic life and with long-lasting effects.
Hazardous to terrestrial vertebrates.

GHS Pictograms:

Signal Word: **DANGER**

PREVENTION STATEMENTS:

P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe dust.
P264 - Wash hands, exposed skin, thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE STATEMENTS:

P101 – If medical advice is needed, have product container or label at hand.
P301 + P330 - IF SWALLOWED: Rinse mouth.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 – If exposed or concerned: Immediately call a POISON CENTER or doctor/physician.
P314 - Get medical advice if you feel unwell.
P391 - Collect spillage.

STORAGE: None

DISPOSAL:

P501 - In accordance with the Hazardous Substances (Disposal) Notice 2017. Do not release to drains/waterways. Dispose of via an approved waste disposal contractor. Refer to Section 13 of the SDS.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Animal nutritional product.

| Main Component | CAS Number | Concentration (% wt) |
|---|---|---|
| Zinc sulphate monohydrate | 7446-19-7 | ≥ 75% |
| Magnesium sulphate heptahydrate | 10034-99-8 | 5 – 10% |
| Cuprate(1-), diaqua(glycinato-.kappa.O)[sulfato(2-)-.kappa.O]-, hydrogen (9CI) | 536974-53-5 | 1 – 5% |

| | | |
|---|---|---|
| Silica gel, pptd., cryst.-free | 112926-00-8 | 1 – 5% |
| Copper sulphate | 7758-98-7 | < 0.1% |
| Peppermint Oil | 8006-90-4 | 0.1 – 1% |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## Section 4: FIRST AID MEASURES

**Workplace Facilities Required:** Eye wash and safety shower facilities are required in workplaces.

**If Inhaled:** Remove to fresh air. Keep at rest in a position comfortable for breathing. Monitor symptoms. Seek medical attention if symptoms persist.

**In Contact with Eye:** Hold eyes open, flush continuously with water for at least 20 minutes. Seek immediate medical attention.

**In Contact with Skin:** Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.

**If Swallowed:** DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

**Advice to Doctor:** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Fire/Explosion Hazard:** Product is not flammable or combustible.

**Suitable Extinguishing Media:** Use an extinguishing agent suitable for surrounding fire. Do not use water jet as this may spread the fire.

**Precautions in Connection with Fire:** May give off noxious fumes in a fire containing oxides of zinc, copper, magnesium, and sulphur.

**Advice for firefighters:** Wear full firefighting gear and self-contained breathing apparatus. Ensure fire water is contained on site. Block off all drains.

## Section 6: ACCIDENTAL RELEASE MEASURES

**An emergency response plan meeting the requirements of Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 is required when held in quantities greater than 100kg.**

**Precautions:** Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid contact with skin and eyes. Avoid generating dust. Avoid release to drains, waterways. If product does enter drains/waterways advise the local pollution hotline.

| | |
|---|---|
| **Suitable Protective Equipment:** | Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles, and respiratory protection. |
| **Spill or Leak Procedures.** | Contain the spill. Sweep up spills with dust binding material and place in a suitable, closable chemical waste container. Alternatively, an industrial vacuum cleaner may be used to collect spilled material. Ensure waste container is properly labelled. |
| **Waste Disposal Methods:** | Dispose of as per Section 13. |
| **Emergency preparation:** | Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release. |

## Section 7: HANDLING AND STORAGE

| | |
|---|---|
| **Precautions for Safe Handling:** | Avoid contact with skin and eyes. Do not breathe dust. Do not release to drains/waterways. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. |
| **Storage:** | Keep out of reach of children. Keep in original container or a suitable alternative made of compatible material. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from direct sunlight. |
| **Site Storage Requirements:** | Site Signage will be required when quantities exceed 100kg. For incompatibilities refer to Section 10. |

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| **Workplace Exposure Standards NZ:** | Particulates, not otherwise specified, TWA 10 mg/m$^3$ (inspirable dust), 3 mg/m$^3$ (respirable dust).<br><br>Additionally, Workplace Exposure Standards have been established for the following ingredients:<br><br>Copper and its inorganic compounds, as Cu: TWA 0.01 mg/m$^3$ (r), dsen<br><br>Precipitated silica: TWA 10 mg/m$^3$ |
| **Engineering Controls:** | Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates dust, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards. |
| **Personal Protective Equipment:** | Avoid contact with the skin and eyes. Avoid inhaling dust. |
| **Hand protection:** | Wear protective gloves. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves. |
| **Skin and body protection:** | Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing. |
| **Eye protection:** | Use safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection. |

**Respiratory protection:** Where there is inadequate ventilation, and use results in the formation of dust, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A full-face respirator may be desirable to give respiratory and eye protection.

**Other information:** PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Description:** | Fine, crystalline powder, and granules | **Colour:** | White powder with blue granules |
| **Odour:** | Slight peppermint | **Odour Threshold:** | Not available |
| **Melting Point:** | Not available | **Boiling Point:** | Not available |
| **pH:** | Not available | **Solubility (water, 20°C):** | Not available |
| **Flammability:** | Non-flammable | **Flash Point (Closed Cup):** | Not applicable |
| **UEL/LEL:** | Not applicable | **Vapour Pressure:** | Non-volatile |
| **Decomposition Temp:** | Not applicable | **Autoignition Temp:** | Not applicable |
| **Relative Density:** | Not available | **Octanol/Water Partition Coefficient:** | Not available |
| **Vapour Density:** | Not applicable | **Viscosity:** | Not applicable |
| **Particle Characteristics:** | Not available | | |

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Reactivity:** Under normal conditions of storage and use, not expected to cause any adverse reactions.

**Conditions to Avoid:** Dust formation.

**Incompatibility:** Strong oxidisers, strong acids, strong bases, phosphorous compounds.

**Decomposition:** Thermal decomposition may produce oxides of zinc, copper, magnesium, and sulphur.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Exposure

**Acute Toxicity:** Classified as acutely toxic via ingestion.
$LD_{50}$ oral > 300 to ≤ 2000 mg/kg.
$LD_{50}$ dermal > 2000 mg/kg
$LC_{50}$ inhalation > 5 mg/L

**Inhalation:** Inhaling dust may cause irritation to mucous membranes resulting in coughing,

sneezing, shortness of breath.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting, abdominal pain, and diarrhoea.

**Skin Corrosion/Irritation:** Not expected to be a skin irritant.

**Serious Eye Damage/Eye Irritation:** Product is corrosive to the eyes and may cause redness, pain, weeping, blurred vision, corneal burns, and blindness.

**Respiratory or Skin Sensitisation:** Not expected to be a respiratory or skin sensitiser.

### Chronic Exposure:

**Mutagen/Carcinogen/Reproductive Toxicant** No information available. Product is not expected to be mutagenic, carcinogenic or a reproductive toxicant.

**Specific Target Organ Toxicity Single Exposure:** No information available. Not expected to be a specific target organ toxicant by single exposure.

**Specific Target Organ Toxicity Repeated Exposure:** Product may be harmful to human target organs or systems (blood, liver, kidneys) through prolonged or repeated exposure via ingestion.

**Aspiration Hazard:** No information available. Not expected to be an aspiration hazard.

Toxicity data is based on hazardous ingredient information and concentrations and information for those ingredients in the EPA Chemical Classification and Information Database and the European Chemical Agencies Database.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** $LC_{50}$ < 1 mg/L for fish, crustaceans, and algae.

$LD_{50}$ oral > 300 to ≤ 2000 mg/kg.

Product is very toxic to aquatic life with both short and long-term effects, and hazardous to terrestrial vertebrates. Avoid losses of undiluted product to the environment wherever possible.

**Persistence/degradability:** Not expected to be rapidly biodegradable.

**Bioaccumulation:** No information available.

**Mobility in soil:** No information available.

**Other adverse effects:** None identified.

**Ingredients with Ecotoxic classifications:** Zinc Sulphate and Copper Sulphate have been classified as very toxic to the aquatic environment with both short term and long-term effects and also as hazardous to terrestrial vertebrates.

Additionally, Cuprate(1-), diaqua(glycinato-.kappa.O)[sulfato(2-)-.kappa.O]-, hydrogen (9CI) has been classified as very toxic to the aquatic environment with short term effects.

Toxicity data is based on hazardous ingredient information and concentrations and information for those ingredients in the EPA Chemical Classification and Information Database and the European Chemical Agencies Database.

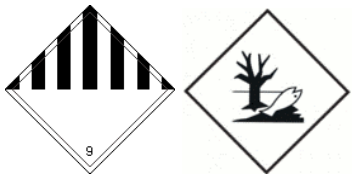
## Section 13: DISPOSAL CONSIDERATIONS

**Disposal:** Recycle and reuse wherever possible. Do not dispose to drains/waterways. Dispose of contaminated waste product via an approved waste disposal contractor.

**Disposal of Packaging:** Dispose of packaging via an approved waste disposal contractor.

## Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.




Hazchem Code: 2Z
Emergency Response Guide: 171

NZS5433:2020:
UN Number: 3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (contains Zinc Sulphate)
Class and Subsidiary Risk: 9
Environmental Hazard: Yes
Packing Group: III

Marine Transport IMDG:
UN Number: 3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (contains Zinc Sulphate)
Class and Subsidiary Risk: 9
Packing Group: III
EmS Code: F-A, S-F
Marine Pollutant: Yes

Air Transport IATA:
UN Number: 3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (contains Zinc Sulphate)
Class and Subsidiary Risk: 9
Packing Group: III
Environmental hazard: Yes

Ensure transportation methods prevent leakage from packages and collapsing loads.

## Section 15: REGULATORY INFORMATION

**Group Standard Allocation:** Animal Nutritional and Animal Care Products Group Standard 2020

**HSNO Approval Code:** HSR002521

**ACVM Registration Number:** A010457

**Classifications:**

Acute toxicity, oral – Category 4
Specific target organ toxicity, repeated exposure – Category 2
Serious eye damage – Category 1
Hazardous in the aquatic environment, acute – Category 1
Hazardous in the aquatic environment, chronic – Category 1
Hazardous to terrestrial vertebrates

**NZ Inventory of Chemicals:** All ingredients are listed in the NZ Inventory of Chemicals.

This substance triggers:

| | |
|---|---|
| Location/Compliance Certificate | N/A |
| Certified Handler | N/A |
| Emergency Response Plan | 100kg |
| Secondary Containment | N/A |
| Signage | 100kg |

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

## Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under the HSNO Act for use as an animal nutrition product. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 1 September 2026

Supersedes: 20 October 2025

Reason for Revision: Addition of ACVM registration number to Section 15.

References:

EPA NZ Chemical Classification and Information Database
European Chemical Agencies Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014
Supplier SDS: Image Holdings Ltd – Seales Winslow Zincmax + SDS, March 2025.

Summary of Abbreviations: EPA – Environmental Protection Authority
GHS – Global Harmonisation System
CAS – Chemical Abstracts Service
TWA – Time Weighted Average

**END OF SAFETY DATA SHEET**